

## Abstract

The invention relates to a rotating electrical machine with a contacting device whose circumference has at least one slide contact disposed on it, which remains in  
5 sliding contact with a brush apparatus (slide system), in which the at least one slide contact is comprised of a wear resistant material.

The invention provides that the electrical machine has an internal cooling system in which a fluid/gas mixture used as a cooling medium circulates around the components  
10 to be cooled, including the slide system, and the at least one slide contact is comprised of an alloy with at least one alloy component that has an affinity for oxygen.

(sole figure)